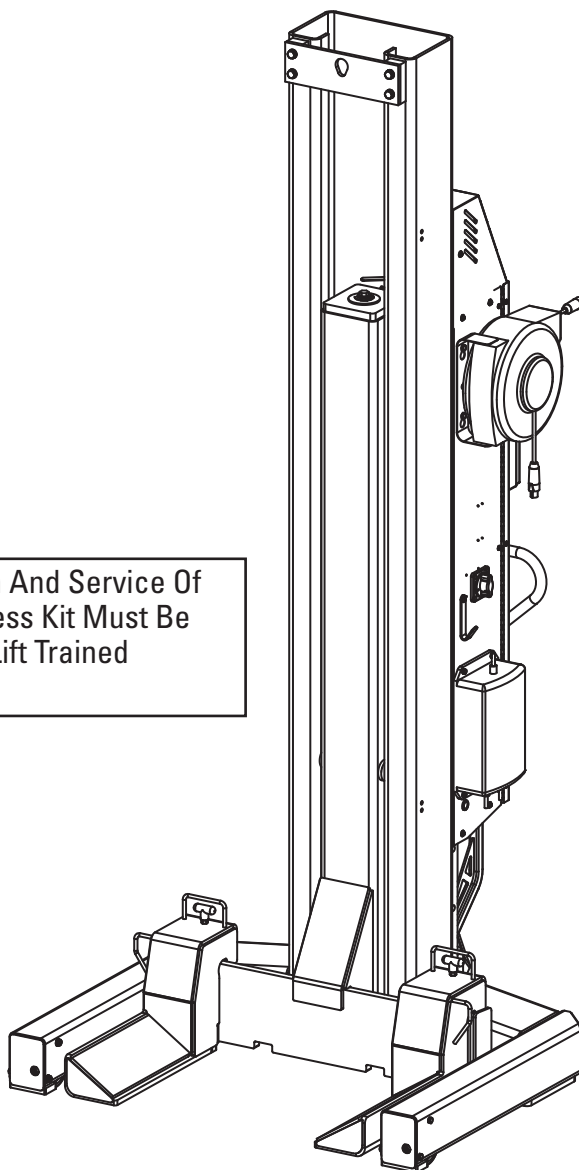




MCH418/MCH618 MCHW418/MCHW618 Wireless Supplement

⚠ IMPORTANT This is only a supplement to the Operation And Maintenance Manual shipped with your lift. Not intended to be a comprehensive Operation and Safety Overview.

⚠ IMPORTANT Installation And Service Of This Wireless Kit Must Be Completed Only By A Rotary Lift Trained Installer.



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Turn off disconnect switch on side of lift and lockout/tagout using appropriate procedures.

1) Installing Control Kit:

IMPORTANT Remove the control board before attaching (drilling holes for) receiver as any metal shavings will damage the board. **After installing the receiver remove all metal shavings from the control panel area.**

- A. Install receiver above control panel as shown in , Fig. 1. Please note that you must leave room for a light kit or one may already be present.

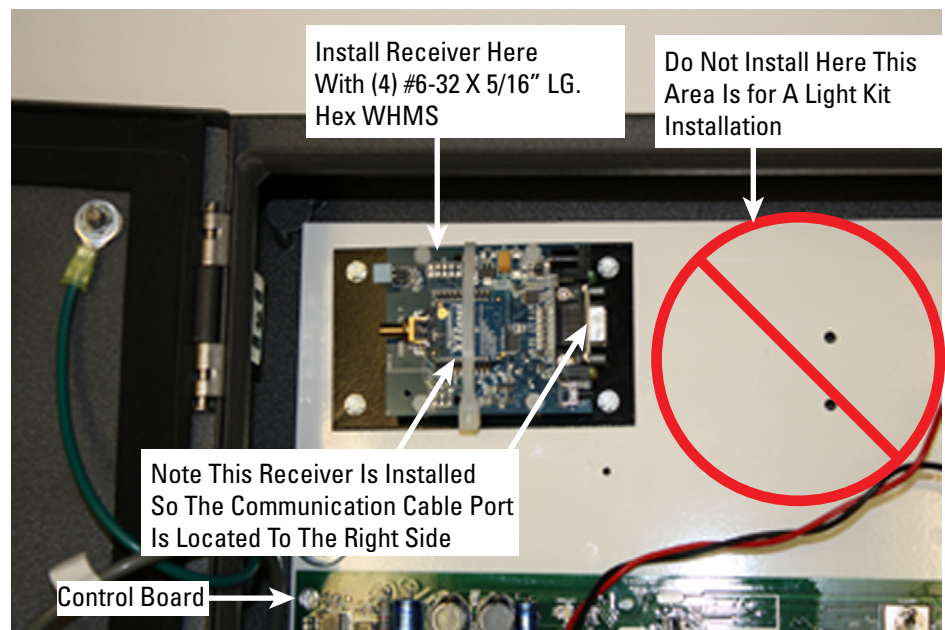


Fig. 1

- B. Connect communication cable to receiver and control board - P4 as shown in Fig. 2.

Note: Switch down to wireless mode as shown in Fig. 2.

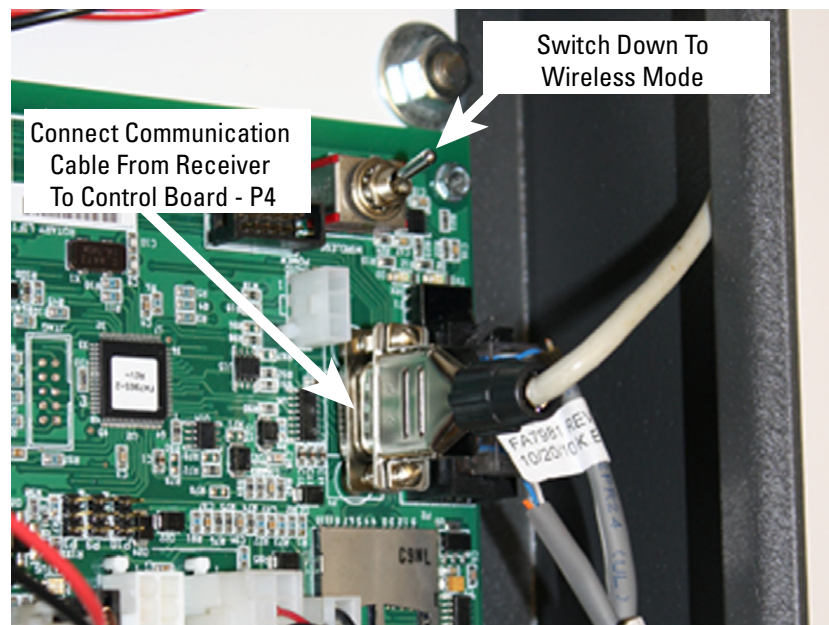
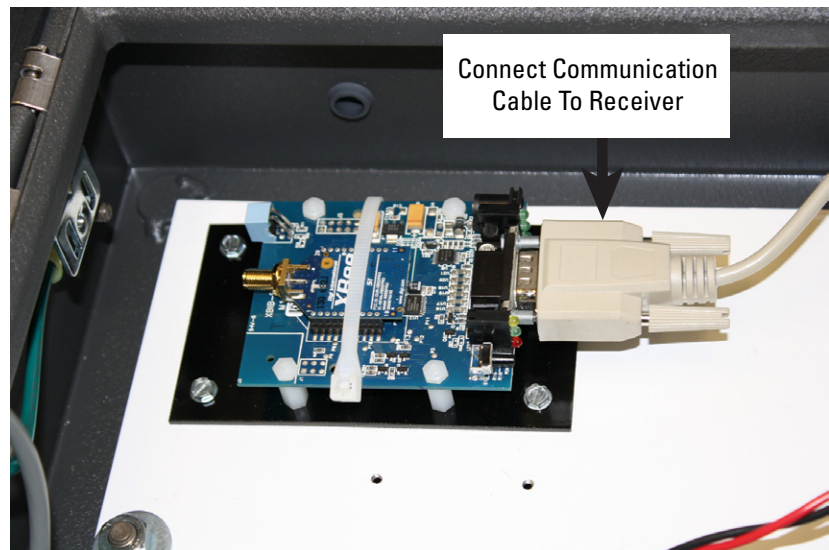


Fig. 2

Connect RF Coaxial Cable
From Receiver To Antenna

CAUTION

Do Not Over Tighten
Finger Tighten Only

Connect Power Cable
To Receiver

- C. Connect RF coaxial cable to receiver as shown in Fig. 3.
- D. Connect power cable to the receiver and control board - J1 as shown in Fig. 3 and Fig 4.

Fig. 3

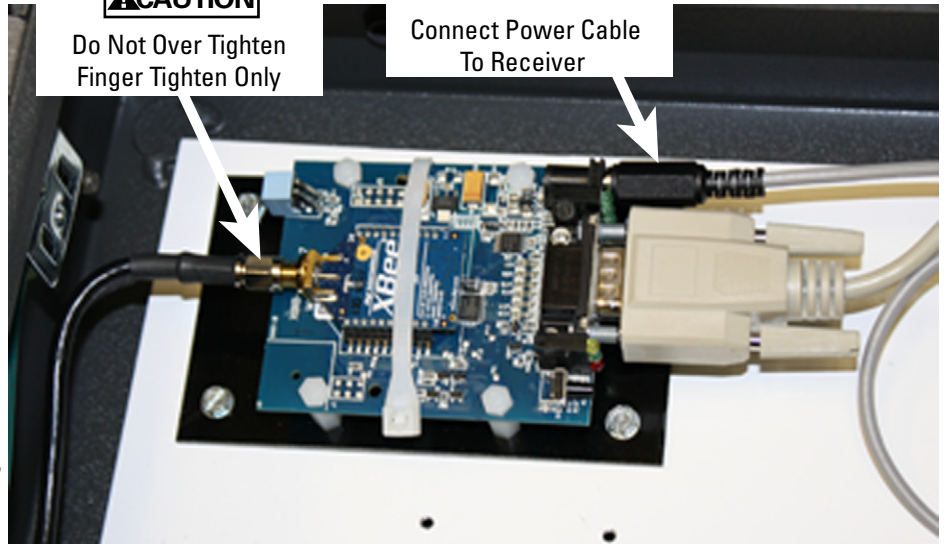
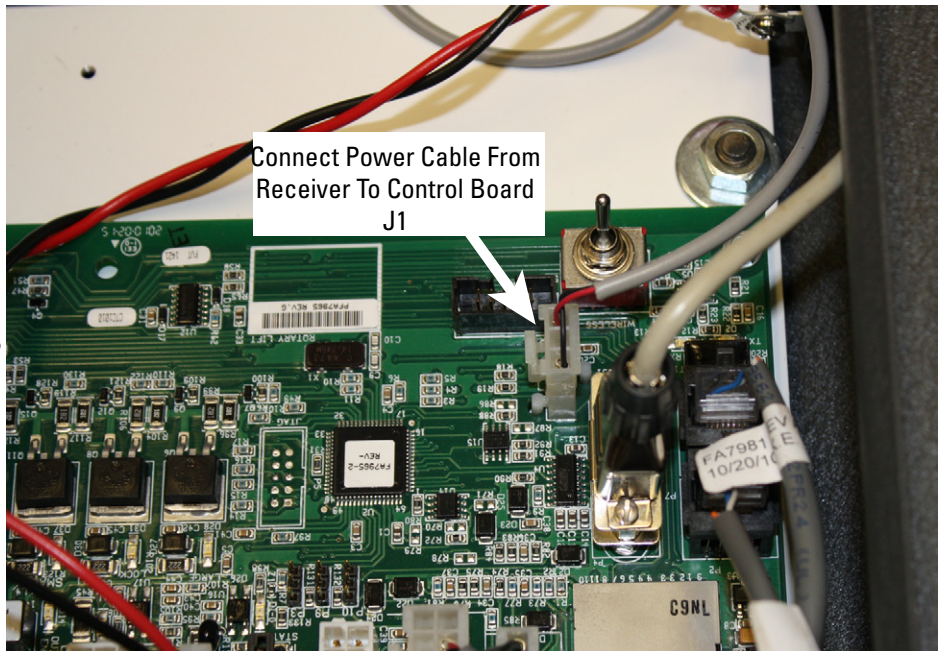
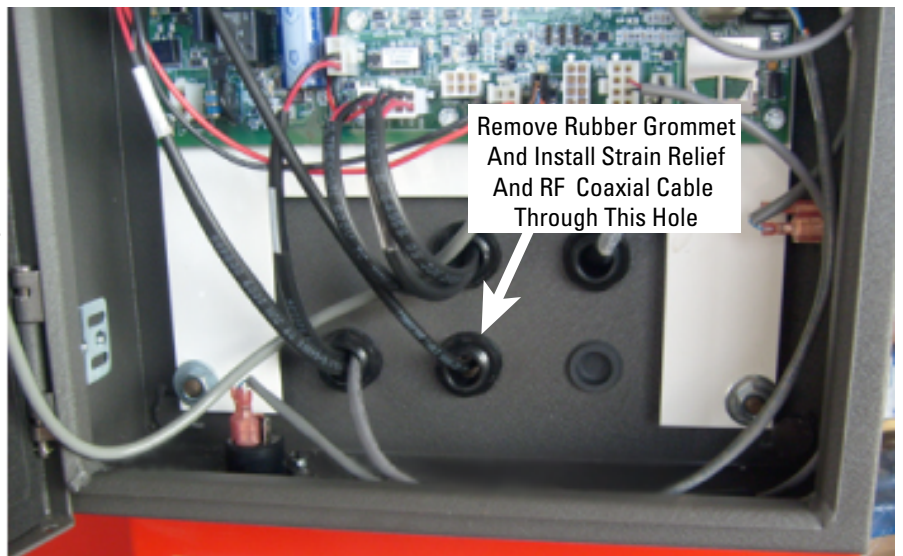


Fig. 4



- E. Remove rubber grommet in bottom of control panel route RF coaxial cable though strain relief provided and install as shown in Fig. 5.

Fig. 5



- F. Drill hole in top of upper enclosure and install the jack bulkhead, RF antenna, and RF coaxial cable from receiver as shown in Fig. 6.
- G. Replace NP900 Operating Nameplate (Supplied). Replace NP893 Wiring Schematic (Supplied).

RF Exposure:

WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20 cm or more should be maintained between the antenna of the device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

Notices:

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference, which can be determined by turning equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Increase the separation between the equipment. Connect equipment to outlets on different circuits.

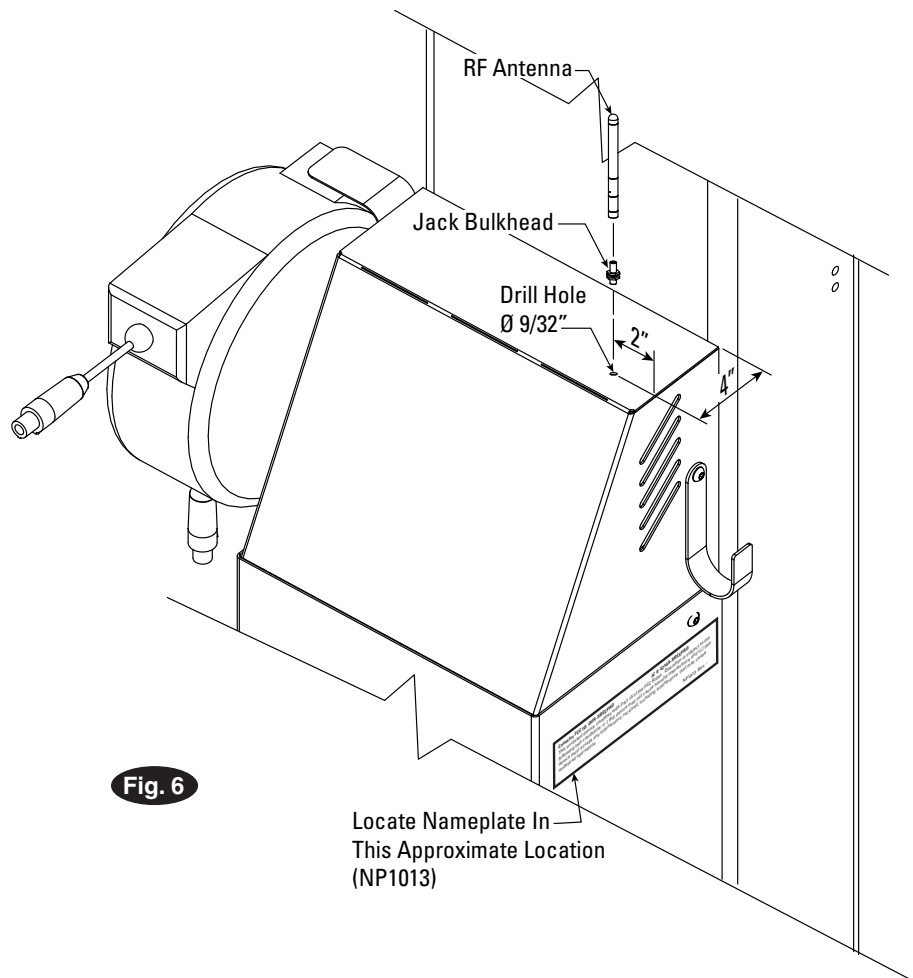
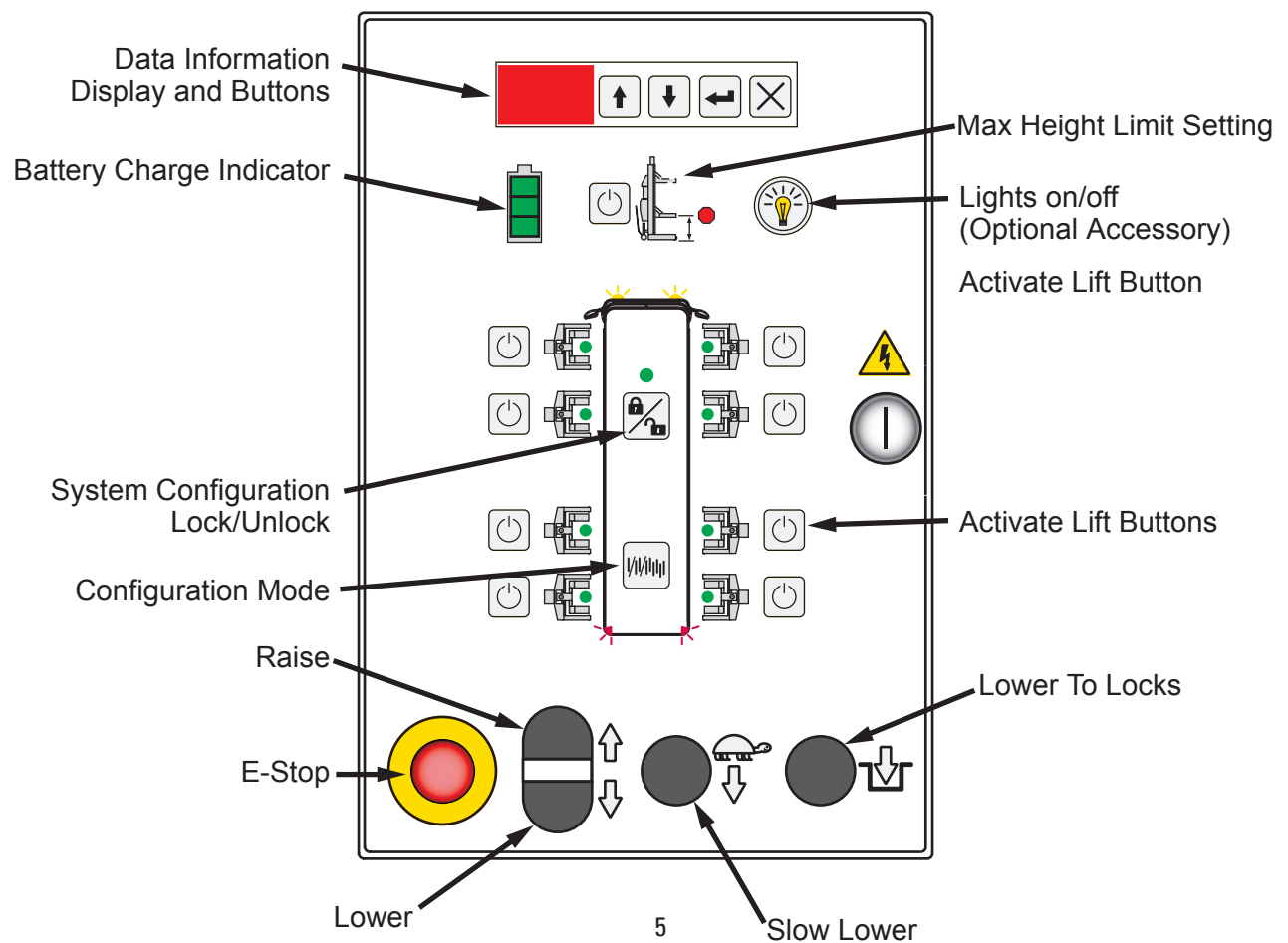
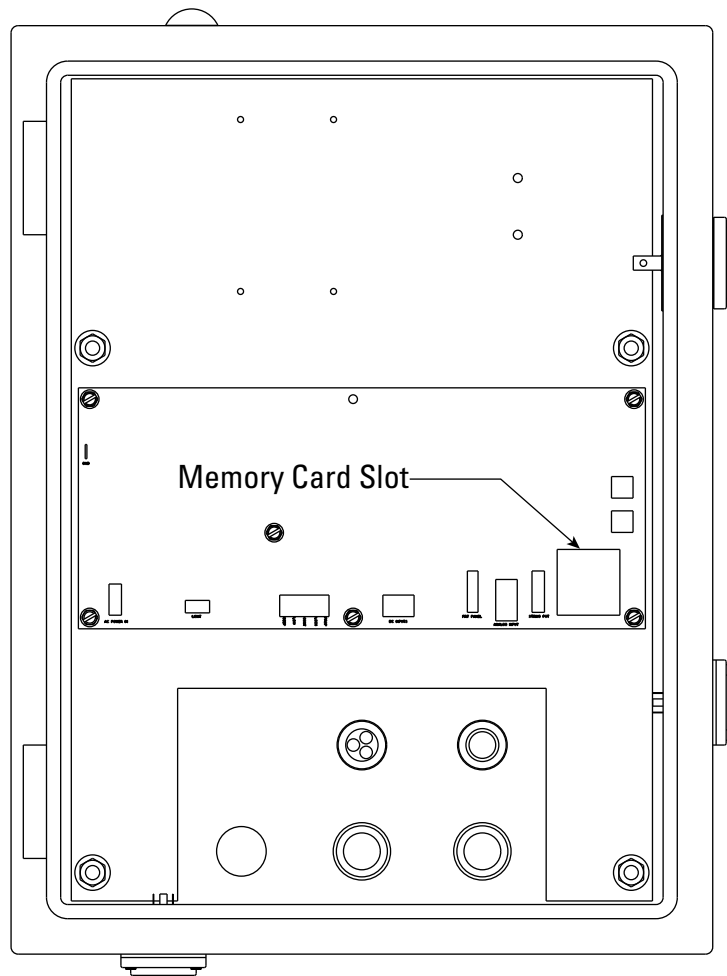


Fig. 6

Locate Nameplate In
This Approximate Location
(NP1013)



Software Update/Service Card Instructions

Wireless Operation

2) Software Updates:

To install a software update:

- 1) Power down the column by turning off the disconnect switch.
- 2) Open the control panel door using 7/16" socket wrench.
- 3) Place the software update card into the memory card slot on the control board.
- 4) Flip switch down to wireless.
- 5) Turn power on.
- 6) Select from one of 32 system numbers by cycling up and down and pressing enter on the desired channel.
- 7) **Keep in mind that all the columns in a set must have the same channel selected.**
- 8) Press a "Select Column Button"   on one of the columns.

Note: A solid green light should come on in that position. Notice the amber light is blinking on other columns already programmed.

- 9) Press a "Select Column Button"   on the remaining columns in that set.

Note: Don't press the buttons where there's an amber light. The amber light signifies that another column in that set has taken that position.

- 10) Once the set of columns are configured in a safe (read the safety guidelines included) and desired manner, press the lock button.
- 11) Remove software update card, and close control panel door.

In order to change the channel:

- 1) Turn on or unlock the column set. When powered up or unlocked, the system number should be displayed on the menu screen (e.g. "S1").
- 2) Press the  key on the menu pad. The system number should then start blinking.

Note: Columns may be added or subtracted when the system is unlocked. Once locked, no columns can be removed, and no outside columns can be added in or control the locked system. Any column that is set to a system number that is already being used by a locked system will display an "E1" error. Always check the column display before locking. If extra columns appear, press the emergency stop and determine the location of the extra columns. Move them to a different system number before locking the system.

- 3) Use the up and down buttons to scroll through the system numbers.
- 4) Press enter once the desired system number is selected
- 5) You must do this for every column in the set ensuring that all the columns have the same system number selected.
- 6) Once the same system number is chosen, operate the column as normal.

Software Menus:

Service menus can be accessed when a service card is placed in the memory card slot.

Menus are displayed on the menu screen and can be scrolled using the up, down, enter, and cancel keys.

Menu Item	Menu Selections	Description
[Height]		Shows current column height (default menu for locked columns)
H		
	HC	Clear max. height setting
	HS	Set max. height setting
P		
	PC	Clear pot calibration
	PS	Set pot calibration
C		
	C0	Configuration recall - turn off
	C1	Configuration recall - turn on
b		
	b0	Lowering Beeper - turn off
	b1	Lowering Beeper - turn on
U		
	UUS	Height display units - US (in)
	USI	Height display units -metric (cm)
rXX		Software revision level XX indicated revision number

- H:** Selecting **HS** sets the maximum height setting. Raise the column to the desired height and depress "  " once to set the value.
In operation the column that reaches its maximum height first stops all columns in the system. Selecting **HC** clears the maximum height setting.
Depress "  " once to clear the Max Height Value. The Maximum Height will default to the Stoke Limit Height until a new Maximum Height is set.
- P:** Selecting **PC** clears the full cylinder stroke limit setting. Depress "  " once to clear the value.
Selecting **PS** sets the stroke limit and height display calibration.
- C:** **C1 (Save/Recall Config at Power Off) or C0 (Erase Config at Power Off).** Depress "  " once to select and return.
If turned on, upon power-up, the column will recall it's previous column configuration / position assignment.
- b:** **b1 (Beeper ON) or b0 (Beeper Off).** Depress "  " once to select. Lowering Beeper function will be active or suppressed accordingly.
- U:** **UUS (Display height in inches) or USI (Display height in centimeters).** Depress "  " once to select.

TROUBLE SHOOTING

Code	Description	Troubleshooting steps
E0	CPU error	The processor has detected an error. Press "x" to clear. If the problem continues, call for service.
E1	Improper configuration	The column has not been assigned a position, and is connected to a locked system. Press "x" to clear. To add the column to the system, first power down the column, and then unlock the system. Power up the column, assign a position, then re-lock the system.
E2	Improper column pairing	Unless a column is run by itself in single mode, it must be selected and moved with it's pairing column. Press "x" to clear.
E3	Communication Error	1) Check for a loosened or unhooked communication cable. Reattach the cable and press "x" to clear. 2) Check for a powered down column. If one column has been powered down, the other columns must be powered down to re-initialize the system.
E4	Out of Level	One or more columns in the system can not maintain level synchronization 1) Ensure that no columns are hung up on the safety locks 2) Check battery power 3) Check for overloading Press "x" to clear. Individually move each column back into a level position. Once all the columns are level, they may be moved as a group.
E5	Emergency Stop	To restore operation, clear the emergency stop button at the indicated column.
E6	Potentiometer Error	An error has occurred with the string potentiometer, and synchronization can no longer be guaranteed. Follow manual lowering procedures.
E7	Short circuit detected	A short has been detected in the lift actuators. Press "x" to clear. To determine the faulty component, run the faulty column by itself. Press the buttons below in exact order until the error is generated: 1) Up button (Error? Check/replace contactor) 2) Slow lower (Error? Check/replace small lowering valve) 3) Lower to locks (Error? Check/replace large lowering valve) 4) Down button (Error? Check/replace lock solenoid)
E8	Software mismatch	Power down and disconnect the column from the system. Load the column with the newest software code. To check the revision level of the software, insert a service card. Revision level is indicated in the service menus as "r__".
E9	Stuck Key	A stuck keypad button or motion push button has been detected on startup, or a motion push button has been held on for longer than 2-1/2 minutes.
E10	Display Communication Error	Communication lost between display board and control board inside control cabinet. Check cable connections.
E11	Low Battery Error	Batteries reached critical level. Check battery charge.
CL	Communication Loss	Communication between columns has been lost temporarily during operation. Re-try operation after release of button.
	Display Unresponsive	Turn off power and check wire connections on the display board for the keypad, the push buttons, and the control board. Restart power and test.
	Slow To Rise	Overloaded, check battery and connections, dirt, debris, in oil system.
	Lift Drifts Down	Dirt, Debris, in oil system.
Receive Signal Strength Indicator (RSSI) (Inside Control Panel)		
Each transceiver has 3 green LED's near the serial port labeled (RSSI). When operating, these LED's should all be on. If they are not all on this indicates a poor signal do to a transceiver failure or antenna/ antenna cable problem.		

SAFETY INSTRUCTIONS

- Inspect your lift daily. Never operate if it malfunctions or if it has broken or damaged parts. Use only qualified lift service personnel and genuine Rotary parts to make repairs.
- Thoroughly train all employees in use and care of lift, using manufacturer's instructions and "Lifting It Right" and "Safety Instructions" supplied with the lift.
- Never allow unauthorized or untrained persons to position vehicle/lift or operate lift.
- Prohibit unauthorized persons from being in shop area while lift is in use.
- Do Not permit anyone on lift or inside vehicle when it is either being raised or lowered.
- Do Not operate lift while batteries are charging.
- Always keep area around lift free of tools, debris, grease and oil.
- Never Overload lift. Capacity of lift is shown on nameplate affixed to the lift.
- Do Not hit or run over lift forks or base. This could damage lift or vehicle. Before driving vehicle into area, position lift units to provide unobstructed entrance onto lift area.
- Load vehicle on lift carefully. Position lift forks to fully contact the vehicle tires. **Release parking break on vehicle.** Raise lift until tires clear the floor. Check lift forks for secure contact with vehicle tires. Raise lift to desired working height.
- Do Not block open or override self-closing lift controls, they are designed to return to the Off or Neutral position when released.
- Remain clear of lift and vehicle when lowering.
- Avoid excessive rocking of vehicle while on lift.
- Clear area if vehicle is in danger of falling.
- Remove tool trays, stands, etc. before lowering lift.
- Position lift units to provide an unobstructed exit before removing vehicle from lift area.
- Do Not perform any maintenance on the control panels until the power has been shut off to the lift.
- Do Not operate equipment with a damaged cord or if the equipment has been dropped or damaged.
- Do Not drive over pendant or pendant cord.
- Never use pendant below floor grade.
- Always lower columns onto the locking latches.
- Confirm all lift channels match before operating lift. (Wireless Optional Accessory Only)
- For proper operation, the lift must be operated in multiples of 2. Never operate with an odd number of columns.

Notes:

Notes:

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